WAG102

ProSafe™ Dual Band Wireless Access Point

- *Help is there when you need it! NETGEAR provides 24x7 technical support* in English, with selected local language support during office hours.*

Intelligent Networking Features for a Scalable, Secure Solution

NETGEAR's ProSafe Dual Band Wireless Access Point WAG102 delivers the secure, reliable, high performance wireless local area networks (WLANs) today's mobile workforce demands. The WAG102 Access Point supports both 5 GHz and 2.4 GHz 54 Mbps radio transmission with up to 108 Mbps** in both 802.11g and 802.11a in turbo mode. It supports up to 128 simultaneous wireless clients and client types within the same coverage area. WAG102 brings standards-based enterprise-level functionality at a mid-market price with features such as robust security measures, simplified management and configuration, integrated IEEE 802.3af power over Ethernet (PoE), and Wi-Fi certification. Supports Simple Network Management Protocol (SNMP) and is optimized for NETGEAR ProSafe Network Management Software NMS100.

Secure

Complies with industry security standards for wireless data encryption, and user authorization. It provides support for WPA2 and 802.1x to enable strong mutual authentication to ensure only legitimate clients have access to the network. 802.11i, WPA2 Enterprise provides enhanced, interoperable wireless networking security. Supports MAC address authentication with 256-user Access Control Lists (ACL) and VPN pass-through.

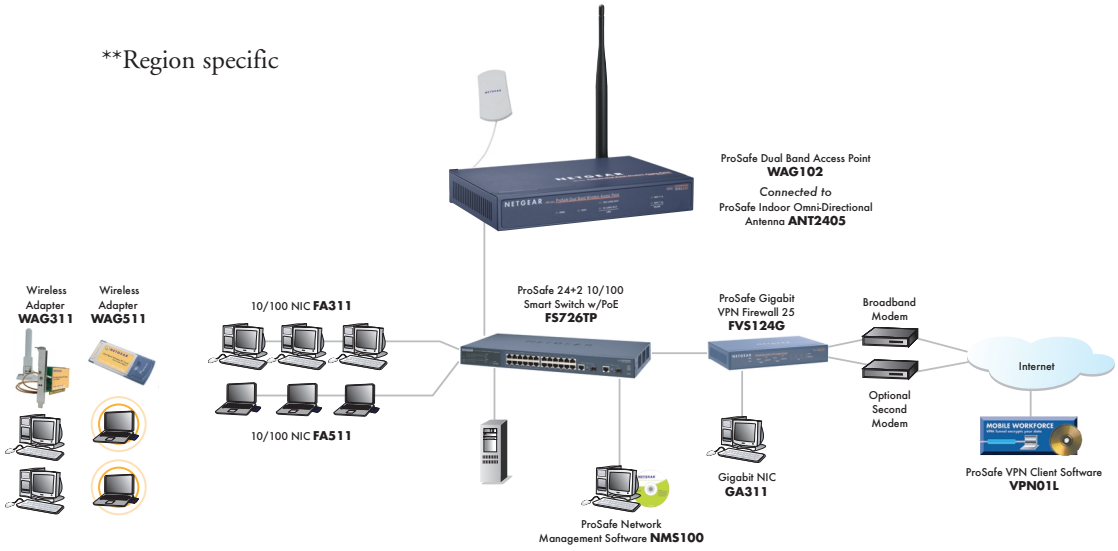
Versatile

Cost effective, simple to install and use. Wi-Fi Certified and plenum rated—appropriate for placement above drop-down ceilings and under raised floors. Equipped with convenient Smart Wizard™ browser-based interface. Fitted with two powerful detachable 5 dBi antennas and compatible with NETGEAR's ProSafe 2.4 GHz antennas for expanded wireless capacity and range. Protected with a NETGEAR 3-year warranty. WAG102 includes the embedded IEEE 802.3af Power over Ethernet (PoE) port which expands installation options by eliminating the need to locate the WAG102 near a power outlet.

Dynamic

WAG102 will be integrated with radio frequency (RF) management technology, where the wireless network self optimizes by intelligently choosing channels and dynamically adjusting the power levels to ensure coverage and avoid interference. This feature will be available as an update in a future release.

**Region specific



NETGEAR®
Everybody's connecting.®

NETGEAR Related Products

- **Antennas and Accessories**
  - ANT24O5 ProSafe 5 dBi Indoor Omni-directional antenna
  - ANT2409 ProSafe 9 dBi Indoor/Outdoor Omni-directional Antenna
  - ANT24D18 ProSafe 18 dBi Indoor/Outdoor Directional antenna
  - Five (5) antenna cable lengths: 1.5, 3, 5, 10
  - WAG511 ProSafe 108 Mbps Dual Band PC Card
  - WAG311 ProSafe 108 Mbps Dual Band PCI Adapter
  - NMS100 ProSafe Network Management Software
- **Switches**
  - FSM7326P ProSafe 24+2 10/100 L3 Managed Switch w/24 PoE
  - FS726TP ProSafe 24+2 10/100 Smart Switch w/12 PoE
  - FS116P ProSafe 16 Port 10/100 Desktop Switch w/8 PoE
  - FS108P ProSafe 8 Port 10/100 Desktop Switch w/4 PoE
- **VPN Firewalls**
  - FVS338 ProSafe VPN Firewall 50 with Dial Backup
  - FVS124G ProSafe Gigabit VPN Firewall 25
  - FVS114 ProSafe VPN Firewall 8
  - FVS318 ProSafe VPN Firewall 8
- **Access Points**
  - WG102 ProSafe 802.11g Wireless Access Point

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* Free basic installation support provided for 90 days from date of purchase. Advanced product features and configurations are not included in free basic installation support; optional premium support available.

D-WAG102-01

Product Specifications

- **Wireless:**
  - **Standard:** IEEE 802.11a up to 108 Mbps; 802.11g up to 108 Mbps Wireless Access Point
  - **Antennas:** Two (2) detachable antennas: (1) 5 dBi, 2.4 GHz and (1) 5 dBi 5 GHz
- **Physical Interfaces:**
  - **LAN Port:** One (1) 10/100BASE-T Ethernet (RJ-45) port with Auto Uplink™ (Auto MDI-X) with IEEE 802.3af Power over Ethernet (PoE) support
  - **Power adapter:** 12 VDC, 1.0A power supply; plug is localized to country of sale.
  - **Six (6) LEDs:** Power, Test, 100 Mbps, Link/ACT, and WLAN 802.11g
  - **Antenna Connector:** Two (2) reverse SMA antenna connectors
- **Network Management:**
  - Remote configuration and management through Web browser, SNMP
  - SNMP management supports SNMP MIB I, MIB II, and 802.11 MIB
- **Advanced Wireless Features:**
  - Point-to-point wireless bridge mode
  - Point-to-multipoint wireless bridge mode
  - Repeater mode
  - Adjustable Transmit Power Control (TPC) from 100 mW down to 0 mW
  - RF Management functionality including auto power transmission, channel selection (Future firmware upgrade)
- **Typical Maximum Power Output:**
  - 802.11b mode, 1 to 11 Mbps + 19 dBm
  - 802.11g mode, 6 to 24 Mbps + 18 dBm
  - 802.11g mode, 36, 48 and 54 Mbps + 17/16/16 dBm

Note: Maximum Tx varies based on country and/or region selection to ensure local regulatory compliance.

- **Receive Sensitivity:**
  - **802.11b**

2 Mbps	-94 dBm
5.5 Mbps	-92 dBm
11 Mbps	-90 dBm

  - **802.11g**

6 Mbps	- 91 dBm
9 Mbps	- 91 dBm
12 Mbps	- 90 dBm
18 Mbps	- 87 dBm
24 Mbps	- 85 dBm
36 Mbps	- 80 dBm
48 Mbps	- 75 dBm
54 Mbps	- 70 dBm

  - **802.11a**

6 Mbps	- 92 dBm
9 Mbps	- 91 dBm
12 Mbps	- 90 dBm
18 Mbps	- 86 dBm
24 Mbps	- 84 dBm
36 Mbps	- 79 dBm
48 Mbps	- 72 dBm
54 Mbps	- 70 dBm

- **Power Over Ethernet Required:**
  - 4.3 W
- **Security:**
  - 40/64-, 128-, and 152-bit WEP encryption
  - Block SSID Broadcast
  - VPN pass-through support
  - MAC address filtering with access control lists – up to 256 users
  - 802.1x RADIUS support with EAP TLS, TTLS, PEAP
  - Wi-Fi Protected Access (WPA2)
  - Secure Socket Layer (SSL) remote management login
- **Standards, Safety and Electromagnetic Conformance:**
  - IEEE 802.11g (2.4 GHz Frequency Band, DSSS Modulation Type)
  - IEEE 802.3af Power over Ethernet (PoE)
  - FCC Part 15 Subpart B and Subpart C
  - CE EN 60950-1 (2001), EN 301 489-17 V1.2.1 (2002), EN 301 489-1 V1.4.1 (2002), EN 300 328-1 (2001-12), EN 300 328-2 (2001-12), R&TTE Directive
  - 99/5/EC, CSIPR22(B), AS/NZS 3548 (B)
  - Plenum Rated
  - IEEE 802.11g (2.4 GHz Frequency Band, DSSS Modulation Type)
  - IEEE 802.11a
  - IEEE 802.3af Power over Ethernet (PoE)
  - FCC Part 15 Subpart B , Subpart C and E
  - C-Tick: AS/NZ 3548 Class B
  - CE EN 60950-1 (2001), EN 301 489-17 V1.2.1 (2002-08), EN 301 489-1 V1.4.1 (2002-08), EN 300 328-1 (2001-12), EN 300 328-2 (2003--4), EN301893(5GHz),EN60601, R&TTE Directive 99/5/EC
- **Physical Specifications:**
  - **Dimensions (H x W x D):** 32 x 190.5 x 122 mm (1.25 x 7.5 x 4.8 in.)
  - **Weight:** .62 kg (1.3 lb)
- **Environmental Specifications:**
  - **Operating temperature:** 0 to 40° C (32 to 104° F)
  - **Operating humidity:** 90% maximum relative humidity, noncondensing
- **Warranty:**
  - NETGEAR 3-year warranty

System Requirements

- Windows® 98, Me, 2000 or XP
- 2 MB of available disk space

Package Contents

- ProSafe Dual Band Wireless Access Point WAG102
- Two (2) 5 dBi Detachable Antennas
- Resource CD
- Power adapter
- Ethernet cable
- Installation guide
- Warranty/Support information card

- **ProSupport Service Packs**
  - OnCall 24x7 PMB0331
  - XPressHW PRR0331